

Sustainable Installations: Enduring, Efficient and Effective

Army Worldwide Environmental and Energy
Conference 2000

Purpose

Identify how “sustainable installations fit into the Army’s Installation Vision.

How does sustainability fit into your existing business process.

Illustrate how local communities advance the vision of sustainability.

Why should installations pursue sustainability?

Sustainable Development:

Development of a community that optimizes the goals of satisfying human needs and desires for physical development, and maintaining natural systems that are limited in their ability to accommodate development.

Sustainable Development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs.

***Enduring, Efficient and Effective
Installations***

Installation XXI

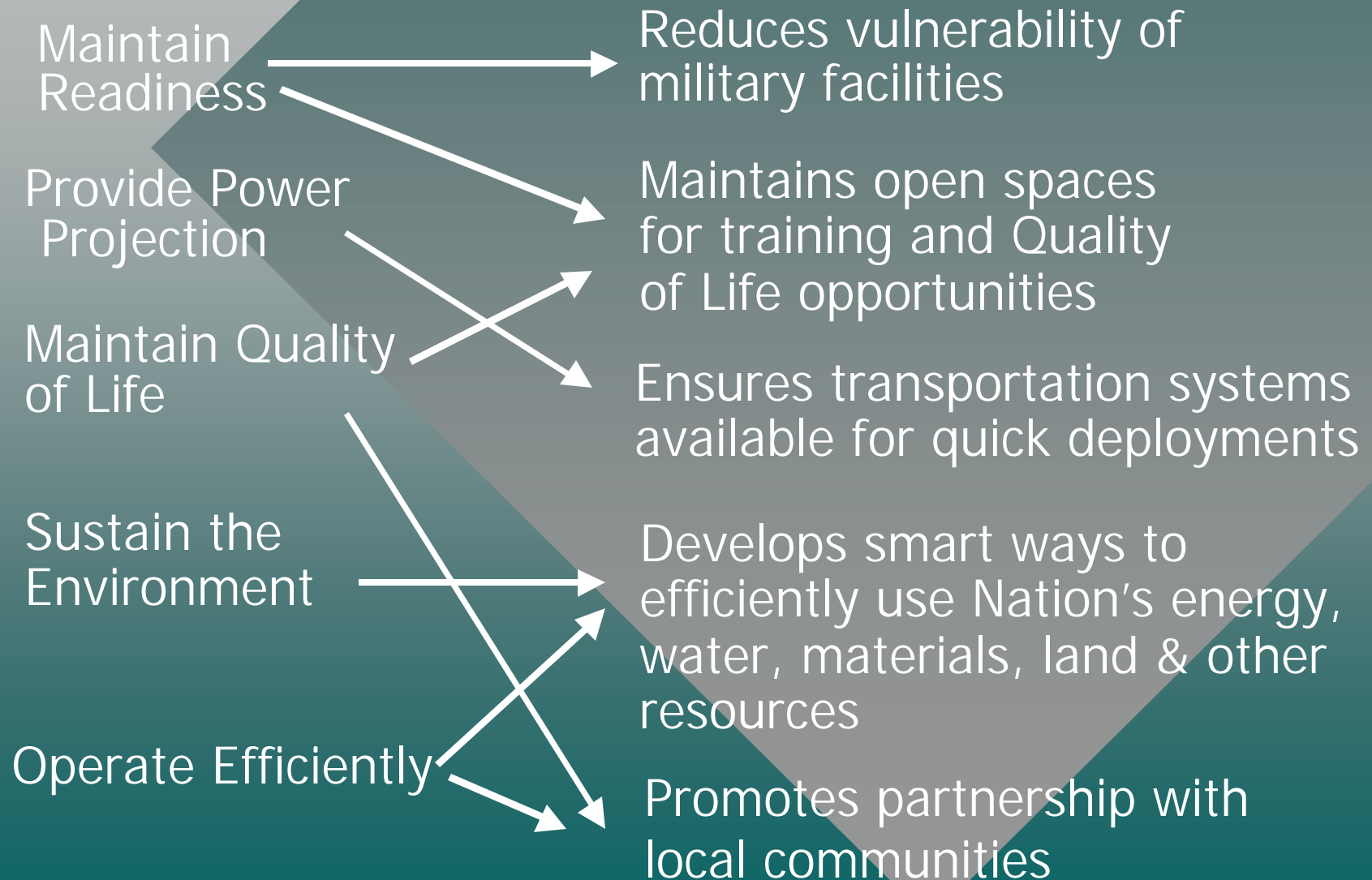
- Installation Vision 2010, Enduring, Effective Efficient Installations
- Maintain Readiness
 - Human Resources
 - Investment Plan
- Provide Power Projection
 - Enable installations to meet power projection requirements
- Maintain Quality of Life
 - Provide a suitable Quality of Life at a reasonable cost
- Sustain the Environment
 - Environmental Stewardship
- Operate Efficiently
 - Installation-Level Business Processes
 - Community Integration
 - Resource Management

Army Challenges of the 21st Century

- Excess facilities
- Army Transformation
- Force Modernization
- Reduced Resources
- Increased Environmental Stewardship challenges
- Land Encroachment
- Limited water
- Fuel costs
- Limited Training Lands
- Rapid changing missions
- Privatization
- New technologies

These are challenges that our installations must respond.

Sustainability: a bridge to meeting Installation challenges



Sustainability: Meeting installation's day to day problems, today and tomorrow.

- Excess Facilities

Impacts: excess energy use; land availability environmental stewardship, use of limited resources, old facilities not configured to support new technologies, inflexible for changing missions

Sustainability solution: demolish excess facilities in areas that allow for in-filling, or promoting reforestation open areas, cuts O&M expenses, reduces fuel and water consumption

Sustainability: Meeting installation's day to day problems, today and tomorrow.

Army Transformation/Force Modernization/ Rapidly changing missions

Impacts: additional energy use; limited land and facility availability environmental stewardship, limited resources, new technologies, changing missions

Sustainability solution: look for re-use of existing facilities, maximize development of existing land uses. Build new facilities that are flexible and can be easily adjusted over time. Site facilities to minimize use of fuels and water, build energy efficient facilities, look for opportunities to partner with local communities.

Sustainability: Meeting installation's day to day problems, today and tomorrow.

Land Encroachment/ Limited Training Lands

Impacts: residential development limits ability to do mission, not enough training areas available to maintain readiness.

Sustainability solution: use the Integrated Training Area Management System (ITAMS) to maximize use of training areas, work with local communities to obtain joint land use of land surrounding the community; Work with local communities to develop brownfields areas for expanded training areas.

Sustainability is awareness of long term impacts of decisions rather than a new program

How to create a sustainable installation?

- Use Your Master Plan as a forum to integrate sustainability in installation decision making
 - Re-look future development goals to insure meeting long term sustainability objectives.
 - Focus on aggressive space re-assignment and re-use rather than new construction
 - Develop a disposal strategy that achieves the needs of sustainability.
 - Ensure MILCON projects are designed for flexibility and easy re-use
 - Use the Summary Development Plan to promulgate the vision of Sustainability
 - Work with your surrounding communities through participation in local planning boards, to find ways to meet requirements

How to create a sustainable installation?

- Consider long term sustainability goals as installations make today decisions
 - When Civilian quality of life issues are discussed, Do installations think about tele-work, work at home initiatives to reduce driving?
 - Does the installation find ways to promote use of mass transportation?
 - Can local partnerships from outside the post help find ways to minimize use of cars, and the excessive consumption of fuels.
 - Can installations look at maintenance procedures and find ways to ensure equipment is well maintained for efficiency.



How do outside communities
approach sustainability?

Why pursue evolving into a Sustainability installations

- Limited resources require innovative means to meet mission requirements.
- Environmental issues integrated within the decision-making process versus expensive remediation
- Sustainability can create opportunities to meet readiness requirements
- Ensure Army installations endure.

A new construction project represents a 75 year investment to the installation.

Close

- The Earth belongs to each... generation during its course, fully and in its own right, no generation can contract debts greater than may be paid during the course of its own existence"
- Thomas Jefferson